

FLEXENERGY INC: COMPANY OVERVIEW

Over 100 Employees

Headquartered in Irvine, CA

Manufacturing Facilities in Portsmouth, NH and Mocksville, NC

Acquired Ingersoll Rand Energy Systems in 2010



POWERSTATIONS

PRODUCTS:

FP 250



Product Description

- Integration of turbine and oxidizer technology
- Operates on the lowest quality waste gases (50 Btu/scf)
- Low pressure fuel input (2 5 psig)
- Nominal electric output of 250 kW
- Available hot water output of 1.1 Million BTU/hr (nominal)
- Near-zero emissions surpasses current regulatory standards

Nominal Electrical Output

Nominal Hot Water Output (option) 1.1 MMBTU/hr

Minimum Fuel Quality

Minimum Fuel Supply Pressure

Nox Concentration in Exhaust Gas

CO Concentration in Exhaust Gas

Heat Rate (HHV)

Exhaust Gas Temperature

Exhaust Gas Mass Flow

System Weight

System Footprint

250 kW

50 Btu/scf

2 to 5 psig

<1 ppm

<1 ppm

3,750,000 Btu/hr

450-500 F

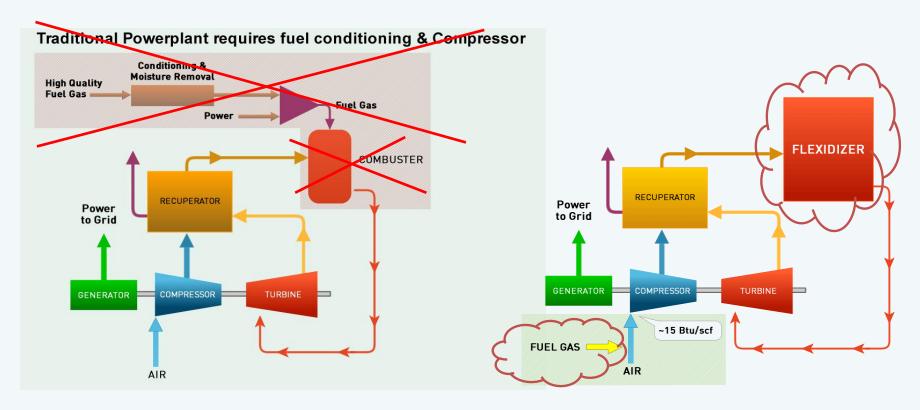
4.7 lb/sec (2.13 kg/sec)

54,000 lbs

20 ft x 12 ft

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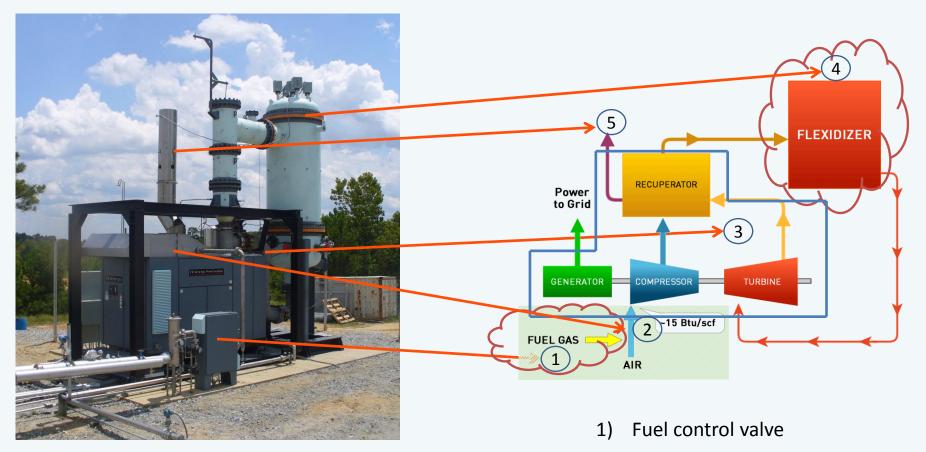
FLEXENERGY INNOVATION: TECHNOLOGY DESCRIPTION



- 1) Fuel Gas Aspiration at System Inlet Eliminates Need for High Pressure Gas
 - Dilutes Gas Down to 1.5% Methane for Operation
- 2) Flexidizer (Thermal Oxidizer) Replaces Combustor & Eliminates Need for Complex Fuel Conditioning
 - Avoids NOx formation while destroying CO and VOC's
 - o Temperatures maintained above 1450F & below 2000F

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FP250 INSTALLED & OPERATING AT FT BENNING LANDFILL



Running on 18% to 24% methane from landfill No supplemental fuel for continuous operation

- 2) Mixing at turbine inlet
- 3) FlexEnergy gas turbine
- 4) FlexEnergy oxidizer
- 5) System exhaust

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Fort Benning Initial Results & Operation Plans

NOx & CO emissions (handheld check)

 Zero NOx & CO measured with Lancom III portable emission analyzer

Flare Shutdown Plan

- Flare shutoff valve installed
- Control integration with site blowers to shutdown flare while Flex is running

Landfill Methane

~18% to ~22% methane over course of day

Monitoring Program with SRI & ESTCP/DoD

- Program emissions test expected to occur within 2 months
 - Additional requirements added by FlexEnergy for CA certified tester
- 1 year monitoring & reporting by SRI
- Ft Benning working on long term operations

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Aug 19,2011
Foot Benning emissions, after 44h at Flex mode
         Ambient
         5 min outside
                                                   FlexEnersy
FLEX100TEST
ON MAIN SITE
            ON MAIN SITE
                                                       "LANCOM III"
        Version No.: V1.09
                                                  Version No. 1 V1.09
        Tupe of fuels
                                                  Type of fuel:
                                                    Natural Gas
                                                  Dry analysis
OZ normalisation: off
        OZ normalisation; off
        Date: 19.08.11
                                                 Date: 19.08.11
        Tine: 12:26:36
         Tambienti 73 F
                                                   T ambients
                                                  T gas 1
                  1.1 ppm
                                                  efficiency | 89.6 %
                                                  loss : 10.4 %
excess air : 503.4 %
        TEST DONE ON UNIT No. 01
                                                  TEST DONE ON UNIT No. Ø1
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FLEX TECHNOLOGY INNOVATION

The Cleanest Power Platform in the World

» FlexEnergy Inc's breakthrough technology efficiently converts low, medium, and high grade fuel streams into heat energy at a temperature high enough to destroy VOCs and CO, and low enough to not create NOx.

- » Novel integration of thermal oxidizer and turbine technologies to deliver power and allows for:
 - » Ultra low pollution profile (less than 1 ppm NOx)
 - » Efficient use of poorest quality gas (runs on 50 Btu fuel)
 - » On and Off-grid continuous power (Baseload, not Peaking)
 - » High ROI for customers (with no environmental impact)

» FlexEnergy Inc's technology enables customers to generate continuous, clean, distributed power from previously unusable gas

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